

2025/2026/1
Developmental Biology I (Stem cells and Organoids) (fall semester)
Director of course: *Nándor Nagy, PhD*

Code: AOVANT834_1A

Credit points: 2

Type of course: elective

Topics of the course: Molecular regulation of ontogeny and developmental malformations. Teratogenesis.

Place and time of course: Online, Zoom, every Thursday, 17:00-18:30

- 01.) INTRODUCTION. Nándor Nagy (Sept. 18)
- 02.) Methods in developmental biology. Nándor Nagy (Sept. 25)
- 03.) Regulatory factors in ontogeny - Transcription factors. Emőke Szőcs (Oct. 2)
- 04.) Regulatory factors in ontogeny - Growth factors. (CXCR4 CXCL12). Viktória G.-Halasy (Oct. 9)
- 05.) Fertilization and cleavage. Nándor Nagy (Oct. 16)
- 06.) Basal membrane in development. Katalin Kocsis (Oct. 23)
- 07.) Neurulation. Nándor Nagy (Oct. 30)
- 08.) Gastrulation. Nóra P-Fejszák (Nov. 6)
- 09.) Neural crest development. Nándor Nagy (Nov. 13)
- 10.) Somite development. Nándor Nagy (Nov. 20)
- 11.) Limb development. Nándor Nagy (Nov. 27)
- 12.) Congenital anomalies. Nándor Nagy (Dec. 4)
- 13.) Stem cells - Introduction, general characteristics. Nándor Nagy (Dec. 11)